

CLAIMS

1. A composition of matter, which comprises in admixture;

N-acetylcysteine;

vitamin C whereby the amount of vitamin C is in an amount sufficient to facilitate the absorption of N-acetylcysteine across the cellular membrane; and a pharmaceutically acceptable systemic carrier for oral administration.

2. The composition of claim 1 further comprising one or more of the following substances from the group consisting of alpha-lipoic acid, sylmarin, quercitin, l-glutamine, ~~N-acetyl-d-glucosamine~~, a probiotic, and dietary protein.

3. The composition of claim 1 further comprising alpha-lipoic acid, sylmarin, quercitin, l-glutamine, ~~N-acetyl-d-glucosamine~~, and a probiotic.

4. The composition of claim 3 further comprising dietary protein.


5. The composition of claim 1 further comprising flavorants.

6. The systemic administration of a pharmaceutically effective amount of the composition according to claim 1 to a mammal suffering from low glutathione levels, to stimulate the natural

production of glutathione in the biological cells of the mammal.

7. The systemic administration of a pharmaceutically effective amount of the composition according to claim 2 to a mammal suffering from hepatitis, to stimulate the natural production of glutathione in the biological cells of the mammal.
8. The systemic administration of a pharmaceutically effective amount of the composition according to claim 2 to a mammal suffering from HIV, to stimulate the natural production of glutathione in the biological cells of the mammal.
9. The systemic administration of a pharmaceutically effective amount of the composition according to claim 2 to a mammal suffering from allergies, to shift the T-cell balance from TH2 to TH1 and decrease levels of TgE.

10. The systemic administration of a pharmaceutically effective amount of the composition according to claim 2 to a mammal to decrease serum cholesterol and triglycerides.

- 
11. The systemic administration of a pharmaceutically effective amount of the composition according to claim 2 to a mammal suffering from one or more of the following illnesses from the group consisting of chronic viral infections, HIV, hepatitis C, chronic fatigue, immuno deficiency syndrome,

immune deficiencies, cancer, B-cell malignancies, including lymphomas, chronic leukemia, myeloma Waldenstrom's and MGUS to decrease fatigue.

12. The systemic administration of a pharmaceutically effective amount of the composition according to claim 2 to a mammal to decrease fatigue.

13. The systemic administration of a pharmaceutically effective amount of the composition according to claim 2 to a mammal to decrease the effects of stress.

14. The systemic administration of a pharmaceutically effective amount of the composition according to claim 2 to a mammal to increase energy.

15. Administration according to claim 6 wherein a pharmaceutically effective is 0.1 mg/kg to about 50 mg/kg of body weight of the mammal, daily.

16. Administration according to claim 6 wherein a pharmaceutically effective is 0.5 mg/kg to about 25 mg/kg of body weight of the mammal, daily.

17. The systemic administration of a pharmaceutically effective amount of the composition according to claim 2 to a mammal suffering from low glutathione levels, to stimulate the natural production of glutathione in the biological cells of the mammal.

18. The systemic administration of a pharmaceutically effective amount of the composition according to claim 3 to a mammal suffering from low glutathione levels, to stimulate the natural production of glutathione in the biological cells of the mammal.

656240-220000

add 05